

In re Appln. No.: 09/419,305

Favorable consideration and early allowance are  
respectfully requested.

Respectfully submitted,

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SECTION WITH MARKINGS TO SHOW CHANGES MADE"

1 (Thrice-amended). A purified recombinant thermostable enzyme having which is obtained by the recombinant DNA technology and which has the following physicochemical properties:

(1) Action

Forming non-reducing saccharides having a trehalose structure as an end unit and having a degree of glucose polymerization of at least 3 from maltotetraose or reducing amylaceous saccharides having a degree of glucose polymerization of at least 3;

(2) Molecular weight

About 69,000-79,000 daltons on sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE);

(3) Isoelectric point (pI)

About 5.4-6.4 on isoelectrophoresis;

(4) Thermostability

Substantially not inactivated even when incubated in an aqueous solution (pH 7.0) at 85°C for 60 min.; and

(5) Amino acid sequence

An amino acid sequence which is not identical to SEQ ID NO:1 but which has physicochemical properties of (1) to (4) inherent to a thermostable enzyme of SEQ ID NO:1, said amino acid sequence comprising the sequence of at least

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two contiguous amino acid residues in SEQ ID NO:3  
and/or SEQ ID NO:4.